

Report Information
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Visual program navigation system based on spatial distribution of color.

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Abstract

This paper presents a visual program navigation system using our proposals for **MPEG–7**, these are adopted as **MPEG–7 XM**. **MPEG–7** supports two levels of description, a low–level and a high–level. The former is designed to capture signal processing based features, and the latter is intended to represent semantic features. We show an implementation example of a personalized digital recorder (PDR) application, which uses both levels. It uses a color layout **descriptor** for image retrieval. The image retrieval efficiency is quite high in spite of its high–speed retrieval with low cost description. A content personalization interface is also implemented using a set of meta information and provides a variety of content visualization functions.

Descriptors

CONTENT–BASED–RETRIEVAL; IMAGE–COLOUR–ANALYSIS; SEARCH–ENGINES; TELECOMMUNICATION–STANDARDS; VISUAL–DATABASES.

Classification codes

B6135 **Optical**–image–and–video–signal–processing*;
C7250N Search–engines*;
C6160S Spatial–and–pictorial–databases;
C7250R Information–retrieval–techniques.

Keywords

visual–program–navigation–system; color–spatial–distribution; **MPEG–7**;
MPEG–7–XM; low–level–description; high–level–description; signal–
processing–based–features–capture; **semantic**–features–representation;
personalized–digital–recorder; **color**–layout–descriptor; image–
retrieval–efficiency; high–speed–retrieval; low–cost–description;
content–personalization–interface; meta–information; content–
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Treatment codes

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Search Strategy

No.	Database	Search term	Info added since	Results
1	INZZ	mpeg-7 AND descriptor AND representation AND video	unrestricted	10

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